

**SYSTEM AND METHOD FOR PROVIDING HIGH DEFINITION MATERIAL
ON A STANDARD DEFINITION COMPATIBLE MEDIUM**

ABSTRACT OF THE INVENTION

A system and method for recording and reconstructing a high definition video on
5 a standard definition DVD. A recording system is provided that comprises: a system for
scaling down an HD video to an SD video format; a system for encoding the SD video; a
system for extracting enhancement information from the HD video; and a system for
storing the SD video and the extracted enhancement information onto the SD compatible
medium. A playback system is provided for reconstructing the HD video image from the
10 standard definition SD format recording, comprising: a system for extracting and
decoding SD data from the recording; a system for extracting enhancement information
from the recording; a system for de-interlacing the decoded SD data; and a system for up-
scaling and post-processing the decoded SD data with the enhancement information to
generate the HD video image.